

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: **Monforte et al.**
Serial No.: 09/139,386
Filed: August 25, 1998
For: **PRIMERS USEFUL FOR SIZING
NUCLEIC ACIDS**
Art Unit: 1656
Examiner: Tung, J.

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TRANSMITTAL LETTER

Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Transmitted herewith, via hand delivery, are an Information Disclosure Statement, Forms PTO-1449 (34 pages) and the cited references for filing in connection with the above-identified application. Because this Supplemental Information Disclosure Statement is filed prior to receipt of a First Office Action on the Merits for the Continued Prosecution Application, mailed January 4, 2002, a fee should not be due. However, should it be determined that a fee for filing these papers is required, the Commissioner is authorized to charge Deposit Account No. 50-1213, as stated below:

- ☒ The Commissioner is hereby authorized to charge any fees that may be due under 37 C.F.R. §§1.16-1.17 in connection with this paper or with this application during its entire pendency to Deposit Account No. 50-1213. A duplicate of this sheet is enclosed.

Respectfully submitted,
HELLER, EHRMAN, WHITE & McAULIFFE LLP

By:

Stephanie L. Seidman
Registration No. 33,779

Dated: February 5, 2002
Attorney Docket No. 24736-2060
Address all correspondence to:
Stephanie L. Seidman, Esq.
HELLER, EHRMAN, WHITE & McAULIFFE LLP
4350 La Jolla Village Drive, Suite 600
San Diego, CA 92122-1246
Telephone: (858) 450-8400
Facsimile: (858) 587-5360
e-mail: sseidman@hewm.com

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**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT IN
ACCORDANCE WITH 37 C.F.R. §§ 1.97-1.98**

Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

A request under 37 C.F.R. §1.53(d) to file a Continued Prosecution Application of the above-identified application, was mailed January 4, 2002. Since this Supplemental Information Disclosure Statement is filed prior to receipt of a First Office Action on the Merits for the Continued Prosecution Application, a fee should not be due. If, however, it is determined that a fee is due, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-1213.

In accordance with the duty of disclosure imposed by 37 C.F.R. §1.56 to inform the Patent Office of all references known by Applicant or Applicant's representative that may be material to the examination of the subject application, Applicant's representative hereby provides this Supplemental Information Disclosure Statement that is prepared in accordance with 37 C.F.R. §§1.97-1.98. Forms PTO-1449 (34 pages) and copies of the cited documents are provided herewith.

The documents listed on the Forms PTO-1449 are in the English language with the exception of items FQ, FT, GB, GF, GH, GJ, GL, GN-GT, HJ, IB, IH, and JE. German Patent Nos. DE19617011 (item GB), DE19618032 (item GC), and DE19754978 (item GF) are in the German language, are each supplied with English

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language equivalents (items CK, GL, and GJ, respectively) describing the subject matter. German patent application numbers DE19628178 (item GD), DE19731479 (item GE), DE3930312 (item GN), DE4011991 (item GO), DE4431174 (item GQ), and DE4438630 (GR), which are in the German language, are provided with English language Derwent abstracts (items MF, MG, LW, LY, MC, and ME, respectively) describing the subject matter. German Patent No. WO 98/03257 (item JE), which is in the German language, is supplied with a Certified English language translation, (item LE).

Japanese Patent numbers JP2215399 (item GH), JP4178359 (item GP), and JP63230086 (item GT), which are in the Japanese language, are provided with English language Derwent abstracts (items LX, MA, and LT) describing the subject matter. Japanese Patent No. JP6294796 (item GS), which is in the Japanese language, is supplied with a Certified English language translation (item LC) describing the subject matter.

French patent applications EPO269520 (item FQ), EPO360676 (item FR), and EPO360677 (item FS), which are in the French language, are provided with English language Derwent abstracts (items LS, LU, and LV, respectively) describing the subject matter. French patent application number EPO412833 (item FT), which is in the French language, is supplied with a Certified English language translation (item LD) describing the subject matter. French patents WO91/02087 (item HJ), WO95/07361 (item IB), and WO96/05323 (item IH), which are in the French language, are provided with English language Derwent abstracts (items LZ, MB, and MD, respectively) describing the subject matter.

Hence, in accordance with the requirements of 37 C.F.R. §1.98, as amended effective March 16, 1992, no further explanation of the listed items is necessary.

Applicant also makes known to the Examiner the following co-pending U.S. and International applications that have one or more common inventors and/or are commonly owned:

<u>U.S.S.N.(App. no.)</u>	<u>Filing Date</u>	<u>Docket No.</u>
09/297,575	05/03/99	2001US
08/947,801	10/08/97	2001B
08/786,988	01/23/97	2001D
09/364,774	07/30/99	2001E

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<u>U.S.S.N.(App. no.)</u>	<u>Filing Dat</u>	<u>D ck t No.</u>
09/371,150	08/09/99	2001F
09/429,683	10/28/99	2001G
09/287,679	04/06/99	2002C
09/287/141	04/06/99	2002D
09/287,682	04/06/99	2002E
09/287,681	04/06/99	2002F
09/431,613	11/02/99	2002G
09/397,766	09/15/99	2002I
09/504,245	02/15/00	2002J
09/724,877	11/28/00	2002K
09/879,341	06/11/01	2002M
08/744,481	11/06/96	2004
09/297,576	05/03/99	2004US
09/179,536	10/26/98	2004B
09/783,881	02/13/01	2004C
08/990,851	12/15/97	2007
08/034,738	03/19/93	2010
08/467,208	06/06/95	2011D
08/922,201	09/02/97	2016
09/146,054	09/02/98	2016B
09/664,977	09/18/00	2016C
10/007,557	11/06/01	2016D
09/074,936	05/07/98	2021
09/309,125	05/10/99	2021A
09/307,006	05/07/99	2021B
09/285,481	04/02/99	2022
09/680,581	10/05/00	2022B
09/266,409	03/10/99	2023
09/678,620	10/02/00	2023B
09/687,483	10/13/00	2033
09/834,700	04/12/01	2035
10/037,356	10/24/01	2046
09/802,640	03/09/01	2048
09/663,968	03/09/01	2049
09/839,629	04/20/01	2050
09/515,277	02/29/00	2054B
09/089,730	06/03/98	2055C
08/988,024	12/10/97	2057
09/515,357	02/29/00	2058B
09/541,210	04/03/00	2059B

<u>Int'l Appln. No.</u>	<u>Filing Date</u>	<u>Docket No.</u>
PCT/US01/21308	07/05/01	2035PC
PCT/US01/45123	10/24/01	2046PC
PCT/US01/29290	09/18/01	2049PC

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Although these documents are made known to the Patent and Trademark Office in compliance with Applicant's duty of disclosure, such disclosure is not to be construed as an admission by Applicant or Applicant's representative that any of the references, singly or in any combination thereof, is effective as prior art against the subject application. In accordance with 37 C.F.R. §1.97(h), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. §1.56(b) exists.

Applicant respectfully requests that the Examiner review the foregoing references and make them of record in the file history of the above-captioned application.

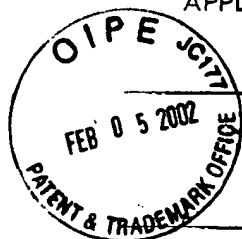
Respectfully submitted,
HELLER EHRMAN WHITE & McAULIFFE LLP

By: 

Stephanie Seidman
Registration No. 33,779

Dated: February 4, 2002
Attorney Docket 24736-2060
Address all correspondence to:
HELLER EHRMAN WHITE & McAULIFFE LLP
4350 La Jolla Village Drive, 6th Floor
San Diego, California 92122-1246
Telephone: (858) 450-8400
Facsimile: (858) 587-5360
e-mail: sseidman@HEWM.com

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	ITEM	DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
	A	4	1	3	9	3	4	6	02/13/79	Rabbani	422	58	11/28/77
	B	4	5	1	5	7	8	1	05/07/85	Torrence <i>et al.</i>	514	44	02/23/83
	C	4	5	8	2	7	8	9	04/15/86	Sheldon III <i>et al.</i>	435	6	12/18/84
	D	4	6	0	4	3	6	3	08/05/86	Newhouse <i>et al.</i>	436	177	10/18/84
	E	4	6	5	6	1	2	7	04/07/87	Mundy	435	6	04/23/84
	F	4	6	8	3	1	9	4	07/28/87	Saiki <i>et al.</i>	435	6	03/28/85
	G	4	6	8	3	1	9	5	07/28/87	Mullis <i>et al.</i>	435	6	02/07/86
	H	4	7	1	1	9	5	5	12/08/87	Ward <i>et al.</i>	536	25.32	05/23/83
	I	4	7	2	5	6	7	7	02/16/88	Köster <i>et al.</i>	536	27	06/18/85
	J	4	7	2	9	9	4	7	03/08/89	Middendorf <i>et al.</i>	435	6	03/29/84
	K	4	8	0	6	5	4	6	02/21/98	Carrico <i>et al.</i>	536	27	09/30/85
	L	4	8	8	2	1	2	7	11/21/89	Rosenthal <i>et al.</i>	422	50	11/12/87
	M	4	9	2	0	2	6	4	04/24/90	Becker	250	282	01/17/89
	N	4	9	9	8	6	1	7	03/12/91	Ladd, Jr. <i>et al.</i>	206	219	09/15/86
	O	5	0	0	3	0	5	9	03/26/91	Brennan	536	27	06/20/88
	P	5	0	5	9	6	5	4	10/22/91	Hou <i>et al.</i>	525	54.1	02/16/89
	Q	5	0	6	2	9	3	5	11/05/91	Schlag <i>et al.</i>	204	157.41	03/21/89
	R	5	0	6	4	7	5	4	11/12/91	Mills	435	6	11/13/87
	S	5	1	1	8	9	3	7	06/02/92	Hillenkamp <i>et al.</i>	250	282	08/21/90
	T	5	1	3	5	8	7	0	08/04/92	Williams <i>et al.</i>	436	173	06/01/90
	U	5	1	4	3	8	5	4	09/01/92	Pirrung <i>et al.</i>	436	518	03/07/90
	V	5	1	4	9	6	2	5	09/22/92	Church <i>et al.</i>	435	6	03/28/90
	W	5	1	7	5	2	0	9	12/29/92	Beattie <i>et al.</i>	525	54.11	01/31/91

EXAMINER

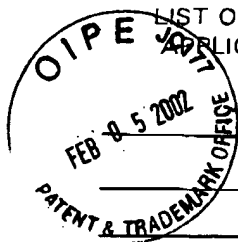
DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: PRIMERS USEFUL FOR SIZING NUCLEIC ACIDS

Dated: February 4, 2002

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
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X	5	1	9	8	5	4	0	03/30/93	Köster	536	25.3	06/25/84
Y	5	2	1	0	4	1	2	05/11/93	Levis <i>et al.</i>	250	288	01/31/91
Z	5	2	2	1	5	1	8	06/22/93	Mills	422	62	08/13/91
AA	5	2	3	7	0	1	6	08/17/93	Ghosh <i>et al.</i>	525	329.4	01/05/89
AB	5	2	4	2	9	7	4	09/07/93	Holmes	525	54.11	11/22/91
AC	5	2	8	8	6	4	4	02/22/94	Beavis <i>et al.</i>	436	94	11/13/92
AD	5	3	0	0	7	7	4	04/05/94	Buttrill	250	287	04/25/91
AE	5	3	3	8	6	8	8	08/16/94	Deeg <i>et al.</i>	436	180	02/19/93
AF	5	3	5	0	6	7	6	09/27/94	Oberhardt <i>et al.</i>	435	13	05/17/93
AG	5	3	8	4	7	6	0	11/15/94	Chu <i>et al.</i>	435	8	09/22/92
AH	5	3	7	6	7	8	8	12/27/94	Standing <i>et al.</i>	250	287	05/26/93
AI	5	3	8	0	8	3	3	01/10/95	Urdea	536	22.1	12/13/91
AJ	5	4	0	3	7	1	1	04/04/95	Walder <i>et al.</i>	435	6	06/06/93
AK	5	4	2	7	9	2	9	06/27/95	Richards <i>et al.</i>	435	91.2	05/03/93
AL	5	4	3	6	1	4	3	07/25/95	Hyman	435	91.2	12/23/92
AM	5	4	5	9	0	3	9	10/17/95	Modrich <i>et al.</i>	435	6	03/18/94
AN	5	4	8	4	7	0	1	01/16/96	Cocuzza <i>et al.</i>	435	6	01/31/92
AO	5	4	9	2	8	0	6	02/20/96	Drmanac <i>et al.</i>	435	5	04/12/93
AP	5	4	9	8	5	4	5	03/12/96	Vestal	436	47	07/21/94
AQ	5	5	0	3	9	8	0	04/02/96	Cantor	435	6	10/17/94
AR	5	5	0	6	3	4	8	04/09/96	Piales	536	23.1	02/24/94
AS	5	5	0	8	1	8	9	04/16/96	Deugau <i>et al.</i>	435	6	10/28/94
AT	5	5	1	2	2	9	5	04/30/96	Kornberg <i>et al.</i>	424	450	11/10/94
AU	5	5	1	2	4	3	9	04/30/96	Hornes <i>et al.</i>	435	6	07/06/94
AV	5	5	1	4	5	4	8	50/07/96	Krebber <i>et al.</i>	435	6	02/17/94
AW	5	5	2	5	4	6	4	06/11/96	Drmanac <i>et al.</i>	435	6	02/28/94

EXAMINER

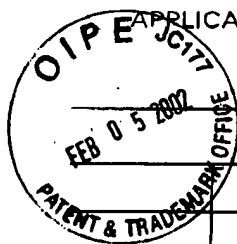
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AX	5	5	2	7	6	7	5	06/18/96	Coull <i>et al.</i>	435	6	08/20/93
AY	5	5	3	8	8	9	7	07/23/96	Yates <i>et al.</i>	436	89	03/14/94
AZ	5	5	4	7	8	3	5	08/20/96	Köster	435	6	01/06/94
BA	5	5	7	1	6	6	9	11/05/96	Lu <i>et al.</i>	435	6	01/14/93
BB	5	5	7	1	6	7	6	11/05/96	Shuber	435	6	06/07/95
BC	5	5	8	0	4	3	4	12/03/96	Northrup <i>et al.</i>	422	102	06/20/95
BD	5	5	8	0	7	3	2	12/03/96	Grossman <i>et al.</i>	435	6	08/28/94
BE	5	5	8	0	7	3	3	12/03/96	Levis <i>et al.</i>	435	6	09/06/94
BF	5	5	9	9	1	3	6	12/31/96	Northrup <i>et al.</i>	422	102	06/20/95
BG	5	5	9	3	8	2	6	01/14/97	Fung <i>et al.</i>	435	8	04/16/93
BH	5	6	0	1	9	8	2	02/11/97	Sargent <i>et al.</i>	435	6	02/07/95
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BJ	5	6	0	6	7	9	8	02/25/97	Köster	435	6	03/17/95
BK	5	6	0	9	9	0	7	03/11/97	Natan	427	2.12	09/20/95
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BM	5	6	2	2	8	2	9	04/22/97	King <i>et al.</i>	435	6	04/19/95
BN	5	6	3	1	1	3	4	05/20/98	Cantor	435	8	06/05/95
BO	5	6	4	1	8	6	2	06/24/97	Rutter <i>et al.</i>	530	334	03/29/95
BP	5	6	4	3	8	0	0	07/01/97	Tarantino <i>et al.</i>	436	618	09/21/95
BQ	5	6	5	0	4	8	9	07/22/97	Lam <i>et al.</i>	530	334	06/19/91
BR	5	6	5	4	1	5	0	08/05/97	King <i>et al.</i>	435	6	06/07/95
BS	5	6	6	3	2	4	2	09/02/92	Ghosh <i>et al.</i>	525	329.4	03/31/95
BT	5	6	7	0	3	2	2	09/23/97	Eggers <i>et al.</i>	435	6	06/01/95
BU	5	6	7	0	3	8	1	09/23/97	Jou <i>et al.</i>	436	518	05/08/95
BV	5	6	7	7	1	9	5	10/14/97	Winkler <i>et al.</i>	436	518	11/20/92
BW	5	6	8	8	6	4	2	11/18/97	Chrisey <i>et al.</i>	435	8	12/01/94

EXAMINER

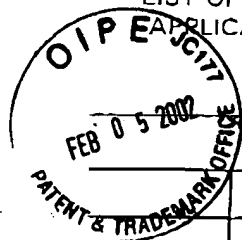
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BX	5	6	9	1	1	4	1	11/25/97	Köster <i>et al.</i>	435	6	06/06/95
BY	5	6	9	5	9	4	0	12/09/97	Drmanac <i>et al.</i>	435	6	06/05/95
BZ	5	7	0	0	6	4	2	12/23/97	Monforte <i>et al.</i>	435	6	05/22/95
CA	5	7	1	0	0	2	8	01/20/98	Eyal <i>et al.</i>	435	91.1	10/04/94
CB	5	7	1	6	8	2	5	02/10/98	Hancock <i>et al.</i>	435	286.5	11/01/95
CC	5	7	6	0	3	9	3	06/02/98	Vestal <i>et al.</i>	250	282	10/17/96
CD	5	7	6	2	8	7	6	06/09/98	Lincoln <i>et al.</i>	422	67	12/22/94
CE	5	7	7	0	3	6	7	06/23/98	Southern <i>et al.</i>	435	6	02/05/96
CF	5	7	7	0	8	6	0	06/23/98	Franzen	250	288	07/10/97
CG	5	7	7	7	3	2	4	07/07/98	Hillenkamp	250	289	09/19/96
CH	5	7	9	5	7	1	4	08/18/98	Cantor <i>et al.</i>	435	6	08/23/93
CI	5	8	0	7	5	2	2	09/15/98	Brown <i>et al.</i>	422	50	06/07/95
CJ	5	8	2	1	0	6	3	10/13/98	Patterson <i>et al.</i>	435	6	04/18/97
CK	5	8	2	8	0	6	3	10/27/98	Köster <i>et al.</i>	250	288	04/02/97
CL	5	8	3	0	6	5	5	11/3/98	Monforte <i>et al.</i>	435	6	04/26/96
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CO	5	8	4	6	7	1	7	12/08/98	Brow <i>et al.</i>	435	6	01/24/96
CP	5	8	5	1	7	6	5	12/22/98	Köster	435	6	05/30/95
CQ	5	8	5	3	9	8	9	12/29/98	Jeffreys <i>et al.</i>	435	6	05/06/96
CR	5	8	5	4	4	8	6	12/29/98	Drayfus	250	288	12/27/96
CS	5	8	5	6	0	9	2	01/05/99	Dale <i>et al.</i>	435	6	04/27/95
CT	5	8	6	4	1	3	7	01/26/99	Becker <i>et al.</i>	250	287	10/01/96
CU	5	8	6	9	2	4	0	02/09/99	Patterson	435	6	05/19/95
CV	5	8	6	9	2	4	2	02/09/99	Kamb	435	6	09/18/95
CW	5	8	7	2	0	0	3	02/16/99	Köster	435	283.1	05/30/95

EXAMINER

DATE CONSIDERED

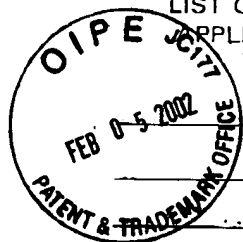
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Title: PRIMERS USEFUL FOR SIZING NUCLEIC ACIDS

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FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
24736-2060SERIAL NO.
09/139,386LIST OF PATENTS AND PUBLICATIONS FOR
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STATEMENTAPPLICANT
Monforte, J. A. *et al.*FILING DATE
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CX	5	8	7	6	9	3	4	03/02/99	Duthie <i>et al.</i>	435	6	12/18/96
CY	5	8	8	5	7	7	5	03/23/99	Haff <i>et al.</i>	435	6	10/04/96
CZ	5	8	8	8	8	1	9	03/30/99	Goelet <i>et al.</i>	435	5	03/05/91
DA	5	9	9	4	0	6	3	04/13/99	Hutchens <i>et al.</i>	436	155	01/17/97
DB	5	9	0	0	4	8	1	05/04/99	Lough <i>et al.</i>	536	55.3	11/06/96
DC	5	9	0	8	7	5	5	06/01/99	Kumar <i>et al.</i>	435	6	10/15/97
DD	5	9	1	2	1	1	8	06/15/99	Ansorge <i>et al.</i>	435	8	08/03/92
DE	5	9	2	5	5	2	0	07/20/99	Tully <i>et al.</i>	435	6	02/14/97
DF	5	9	2	8	9	0	6	07/27/99	Köster <i>et al.</i>	435	91.2	05/09/96
DG	5	9	4	8	6	5	3	09/07/99	Pati <i>et al.</i>	435	6	08/13/97
DH	5	9	5	2	1	7	4	09/14/99	Nikiforov <i>et al.</i>	435	6	09/15/97
DI	5	9	6	5	3	6	3	10/12/99	Monforte <i>et al.</i>	435	6	12/02/96
DJ	5	9	6	9	3	5	0	10/19/99	Kerley <i>et al.</i>	250	287	03/17/98
DK	5	9	7	6	7	9	8	11/02/99	Parker <i>et al.</i>	435	6	02/28/97
DL	5	9	7	6	8	0	2	11/02/99	Ansorge <i>et al.</i>	435	6	04/26/96
DM	5	9	8	1	1	8	6	11/09/99	Gabe <i>et al.</i>	435	6	07/14/97
DN	5	9	8	5	3	5	6	11/16/99	Schultz <i>et al.</i>	427	8	10/18/94
DO	5	9	9	8	1	4	3	12/07/99	Ellis <i>et al.</i>	435	6	12/05/97
DP	6	0	0	1	5	6	7	12/14/99	Brow <i>et al.</i>	435	6	07/12/96
DQ	6	0	0	4	7	4	4	12/21/99	Goelet <i>et al.</i>	435	5	10/11/91
DR	6	0	1	3	4	3	1	01/11/00	Söderlund <i>et al.</i>	435	5	12/02/93
DS	6	0	1	7	7	0	2	01/25/00	Lee <i>et al.</i>	435	6	01/21/97
DT	6	0	1	8	0	4	1	01/25/00	Drmanac <i>et al.</i>	536	24.3	07/29/97
DU	6	0	2	2	6	8	8	02/08/00	Jurinke <i>et al.</i>	435	6	05/13/96
DV	6	0	2	4	9	2	5	02/15/00	Little <i>et al.</i>	422	100	01/23/97
DW	6	0	2	5	1	3	6	02/15/00	Drmanac	435	6	08/28/97

EXAMINER

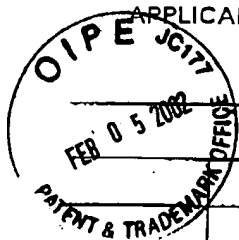
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Dated: February 4, 2002

FORM PTO-1449 (Modified)

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STATEMENTAPPLICANT
Monfort, J. A. *et al.*FILING DATE
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DX	6	0	2	7	8	9	0	02/22/00	Ness <i>et al.</i>	435	6	07/22/97
DY	6	0	3	0	7	7	8	02/29/00	Acton <i>et al.</i>	435	6	07/10/97
DZ	6	0	4	0	1	9	3	03/21/00	Winkler <i>et al.</i>	436	180	08/04/98
EA	6	0	4	3	0	3	1	03/28/00	Köster <i>et al.</i>	435	6	03/18/96
EB	6	0	4	6	0	0	5	04/04/00	Ju <i>et al.</i>	435	6	09/16/98
EC	6	0	5	1	3	7	8	04/18/00	Monforte <i>et al.</i>	435	6	03/04/97
ED	6	0	5	4	2	7	6	04/25/00	Macevitz	435	6	02/23/98
EE	6	0	7	4	8	2	3	06/13/00	Köster	435	6	11/06/96
EF	6	0	7	4	8	5	3	06/13/00	Patl <i>et al.</i>	435	91.1	08/14/98
EG	6	0	8	7	0	9	5	07/11/00	Rosenthal <i>et al.</i>	435	6	04/22/93
EH	6	0	9	0	5	5	8	07/18/00	Butler <i>et al.</i>	435	6	09/18/98
EI	6	1	0	4	0	2	8	08/15/00	Hunter <i>et al.</i>	250	288	05/29/98
EJ	6	1	1	0	4	2	6	08/29/00	Shalon <i>et al.</i>	422	68.1	12/30/97
EK	6	1	1	1	2	5	1	08/29/00	Hillenkamp	250	288	09/19/97
EL	6	1	1	7	6	3	4	09/12/00	Langmore <i>et al.</i>	435	6	03/06/97
EM	6	1	2	1	0	4	8	09/19/00	Zaffaroni <i>et al.</i>	436	45	10/18/94
EN	6	1	3	2	7	2	4	10/17/00	Blum	424	725	04/29/98
EO	6	1	3	3	4	3	6	10/17/00	Köster <i>et al.</i>	536	24.3	09/19/97
EP	6	1	3	6	2	6	9	10/24/00	Winkler <i>et al.</i>	422	61	04/21/95
EQ	6	1	4	0	0	4	5	10/31/00	Wohlstadter <i>et al.</i>	435	6	03/06/97
ER	6	1	4	0	0	5	3	10/31/00	Köster	435	6	09/25/98
ES	6	1	4	6	8	5	4	11/14/00	Köster <i>et al.</i>	435	91.1	08/31/95
ET	6	1	5	6	5	0	1	12/05/00	McGall <i>et al.</i>	435	6	04/03/96
EU	6	1	9	4	1	4	4	B1 02/27/01	Köster	435	6	03/18/96
EV	6	1	9	7	4	9	8	B1 03/06/01	Köster	435	5	03/17/95

EXAMINER

DATE CONSIDERED

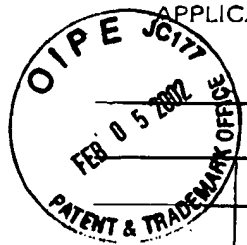
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EW	6	2	0	0	8	1	2	03/13/01	Pati <i>et al.</i>	435	463	04/08/99
EX	6	2	0	7	3	7	0	B1 03/27/01	Little <i>et al.</i>	435	6	09/02/97
EY	6	2	2	1	6	0	1	B1 04/24/01	Köster <i>et al.</i>	435	6	11/02/99
EZ	6	2	2	1	6	0	5	B1 04/24/01	Köster	435	6	02/15/00
FA	6	2	2	5	0	6	1	05/01/01	Becker <i>et al.</i>	435	6	03/10/99
FB	6	2	2	5	4	5	0	05/01/01	Köster	536	22.1	06/07/95
FC	6	2	3	5	4	7	8	B1 05/22/01	Köster	435	6	04/06/99
FD	6	2	3	8	8	7	1	B1 05/29/01	Köster	435	6	05/08/00
FE	6	2	5	8	5	3	8	B1 07/10/01	Köster <i>et al.</i>	435	6	04/06/99
FF	6	2	6	5	7	1	6	B1 07/24/01	Hunter <i>et al.</i>	250	288	02/29/00
FG	6	2	6	8	1	3	1	B1 07/31/01	Kang <i>et al.</i>	435	6	12/15/97
FH	6	2	7	7	5	7	3	B1 08/21/01	Köster	435	6	04/06/99
FI	6	3	0	0	0	7	6	B1 10/09/01	Köster	435	6	01/31/00
FJ	6	3	0	3	3	0	9	B1 10/16/01	Jurinke <i>et al.</i>	435	6	06/21/99
FK	6	3	2	2	9	7	0	B1 11/27/01	Little <i>et al.</i>	435	6	09/02/98

* English language Derwent Abstracts are provided.

+ English language equivalents are provided.

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	ITEM	DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes No
	FL	0	0	5	1	0	5	3	31/Aug/00	PCT			
	FM	0	0	5	8	4	4	6	28/Sep/00	PCT			

EXAMINER

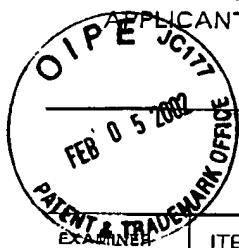
DATE CONSIDERED

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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	ITEM	DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB- CLASS	Translation Yes No	
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	FP	0	8	2	8	8	5	5	15/Dec/99	EPO				
	FQ	0	2	8	9	5	2	0	01/Jun/88	EP A2				X*
	FR	0	3	6	0	6	7	6	28/Mar/90	EP A1				X*
	FS	0	3	6	0	8	7	7	28/Mar/90	EP B1				X*
	FT	0	4	1	2	8	8	3	13/Feb/91	EP A1			X	
	FU	0	5	9	3	7	8	9	27/Apr/94	EP A1				
	FV	0	8	4	8	2	8	0	12/May/99	EP B1				
	FW	0	8	5	5	5	0	1	31/May/95	EP A1		
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	FZ	0	7	7	1	0	1	9	02/May/97	EP				
	GA	0	7	8	5	2	7	8	23/Jul/97	EP				
	GB	1	9	8	1	7	0	11	27/Apr/86	DE				X+
	GC	1	9	6	1	8	0	32	13/Nov/87	DE				X+
	GD	1	9	6	2	8	1	78	12/Jul/98	DE				X*
	GE	1	9	7	3	1	4	79	06/Aug/88	DE				X*
	GF	1	9	7	5	4	9	78	11/Dec/97	DE				X+
	GG	2	0	1	7	1	0	5	20/Mar/79	UK				
	GH	2	2	1	5	3	9	9	28/Aug/90	JP				X*
	GI	2	2	3	3	6	5	4	16/Jan/91	GB				
	GJ	2	3	3	2	2	7	3	16/Jun/99	GB				
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EXAMINER

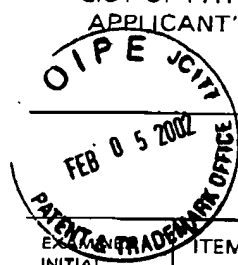
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EXAMINER INITIAL	ITEM	DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes No	
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	GP	4	1	7	8	3	5	8	25/Jun/92	JP				X*
	GQ	4	4	3	1	1	7	4	07/Mar/96	DE A1				X*
	GR	4	4	3	8	6	3	0	02/May/96	DE A1				X*
	GS	6	2	8	4	7	9	6	21/Oct/94	JP A			X	
	GT	8	3	2	3	0	0	88	26/Sep/88	JP A				X*
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	GW	8	8	0	0	2	0	1	14/Jan/88	PCT				
	GX	8	8	1	0	3	1	5	28/Dec/88	PCT				
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	GZ	8	9	0	6	7	0	0	27/Jul/89	PCT A1				
	HA	8	9	0	7	1	4	9	10/Aug/89	PCT				
	HB	8	9	0	9	2	8	2	05/Oct/89	PCT				
	HC	8	9	1	2	6	2	4	28/Dec/89	PCT				
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	HE	9	0	0	1	5	8	4	22/Feb/90	PCT				
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	HG	9	0	0	7	5	8	2	12/Jul/90	PCT				
	HH	9	0	1	4	1	4	8	29/Nov/90	PCT				
	HI	9	0	1	5	8	8	3	27/Dec/90	PCT				
	HJ	9	1	0	2	0	8	7	21/Feb/91	PCT				X*
	HK	9	1	0	6	6	7	8	16/May/91	PCT				

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Title: PRIMERS USEFUL FOR SIZING NUCLEIC ACIDS

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1656

FOREIGN PATENT DOCUMENTS

ITEM	DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUB CLASS	Translation	
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HN	9	1	1	5	6	0	0	17/Oct/91	PCT	-	-			
HO	9	2	0	3	5	7	5	05/Mar/92	PCT					
HP	9	2	1	3	6	2	9	20/Aug/92	PCT					
HQ	9	2	1	5	7	1	2	17/Sep/92	PCT					
HR	9	3	0	6	9	2	5	15/Apr/93	PCT					
HS	9	3	0	9	6	6	8	27/May/93	PCT					
HT	9	3	2	0	2	3	6	14/Oct/93	PCT	-	-			
HU	9	3	2	3	5	6	3	25/Oct/93	PCT A1					
HV	9	3	2	4	6	3	4	09/Dec/93	PCT					
HW	9	4	0	0	5	6	2	06/Jan/94	PCT					
HX	9	4	1	1	5	3	0	26/May/94	PCT					
HY	9	4	1	6	1	0	1	21/Jul/94	PCT					
HZ	9	4	2	1	8	2	2	29/Sep/94	PCT					
IA	9	4	2	8	4	1	8	08/Dec/94	PCT					
IB	9	5	0	7	3	6	1	16/Mar/95	PCT					x*
IC	9	5	1	3	3	6	1	18/May/95	PCT					
ID	9	5	1	3	5	3	8	18/May/95	PCT					
IE	9	5	1	5	4	0	0	08/Jun/95	PCT					
IF	9	5	2	5	7	3	7	28/Sep/95	PCT					
IG	9	5	3	1	4	2	8	23/Nov/95	PCT					
IH	9	6	0	5	3	2	3	22/Feb/96	PCT					x*
II	9	6	1	0	6	4	8	11/Apr/96	PCT A2					
IJ	9	6	1	4	4	0	8	17/May/96	PCT					

EXAMINER

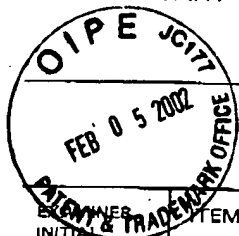
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	ITEM	DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	Translation	
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	IK	9	6	1	5	2	6	2	23/May/96	PCT A2				
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	IM	9	6	2	7	6	8	1	12/Sep/96	PCT				
	IO	9	6	2	9	4	3	1	26/Sep/96	PCT				
	IP	9	6	3	0	5	4	5	03/Oct/96	PCT				
	IQ	9	6	3	2	5	0	4	17/Oct/96	PCT				
	IR	9	6	3	6	7	3	1	21/Nov/96	PCT	--	--		
	IS	9	6	3	6	7	3	2	21/Nov/96	PCT				
	IT	9	6	3	6	9	8	6	21/Nov/96	PCT (A1)	--	--		
	IU	9	6	3	6	9	8	7	21/Nov/96	PCT				
	IV	9	6	3	7	6	3	0	28/Nov/96	PCT				
	IW	9	6	3	9	4	3	7	12/Dec/96	PCT				
	IX	9	7	0	8	3	0	6	08/Mar/97	PCT				
	IY	9	7	1	9	1	1	0	29/May/97	PCT				
	IZ	9	7	3	3	0	0	0	12/Sep/97	PCT	--	--		
	JA	9	7	3	7	0	4	1	09/Oct/97	PCT				
	JB	9	7	4	0	4	6	2	30/Oct/97	PCT				
	JC	9	7	4	2	3	4	8	13/Nov/97	PCT				
	JD	9	7	4	3	8	1	7	20/Nov/97	PCT				
	JE	9	8	0	3	2	5	7	29/Jan/98	PCT			x	
	JF	9	8	1	1	2	4	9	19/Mar/98	PCT				
	JG	9	8	1	2	3	5	5	26/Mar/98	PCT				
	JH	9	8	1	2	7	3	4	28/Mar/98	PCT				
	JI	9	8	1	4	9	8	2	09/Apr/98	PCT				
	JJ	9	8	1	9	5	7	8	18/Sep/98	PCT				

EXAMINER

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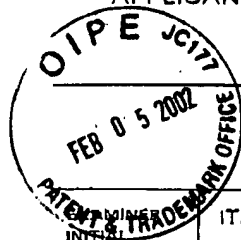
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FOREIGN PATENT DOCUMENTS

ITEM	DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUB CLASS	Translation	
													Yes	No
JK	9	8	2	0	0	1	9	14/May/98	PCT					
JL	9	8	2	0	0	2	0	14/May/98	PCT					
JM	9	8	2	0	1	6	6	14/May/98	PCT					
JN	9	8	2	3	2	8	4	04/Jun/98	PCT					
JO	9	8	2	4	9	3	5	11/Jun/98	PCT					
JP	9	8	2	6	0	9	5	18/Jun/98	PCT					
JQ	9	8	3	0	8	8	3	18/Jul/98	PCT					
JR	9	8	3	3	0	5	2	30/Jul/98	PCT					
JS	9	8	3	3	8	0	6	06/Aug/98	PCT					
JT	9	8	3	5	6	0	9	20/Aug/98	PCT					
JU	9	8	5	4	5	7	1	03/Dec/98	PCT					
JV	9	8	5	4	7	5	1	03/Dec/98	PCT					
JW	9	8	5	6	9	5	4	17/Dec/98	PCT					
JX	9	9	0	5	3	2	3	04/Feb/99	PCT					
JY	9	9	0	9	2	1	8	25/Feb/99	PCT					
JZ	9	9	1	2	0	4	0	11/Mar/99	PCT	G01N	33/68			
KA	9	9	1	4	3	7	5	25/Mar/99	PCT(A2,A3)					
KB	9	9	3	1	2	7	8	24/Jun/99	PCT					
KC	9	9	5	7	3	1	8	11/Nov/99	PCT					

* An English Derwent Abstract is provided.

+ An English Equivalent Patent is provided.

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KD	"Time of Flight Mass Spectrometry of DNA for Rapid Sequence Determination. Technical Progress Report, July 31, 1991 -- July 31, 1992" Arizona State University, Tempe, AZ (1992).
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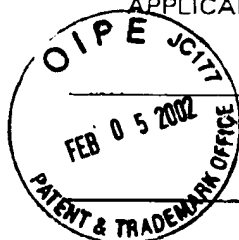
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KE	Adler <i>et al.</i> , "Cell Membrane Coating with Glutaraldehyde: Application to a Versatile Solid-Phase Assay for Thyroid Membrane Proteins and Molecules Interacting with Thyroid Membranes", <i>Anal. Biochem.</i> , <u>148</u> :320-327 (1985).
KF	Ali, S. and Wallace, R. B., "Intrinsic polymorphism of variable number tandem repeat loci in the human genome", <i>Nucl. Acids Res.</i> , <u>16</u> :8487-8496 (1988).
KG	Andersen, <i>et al.</i> , "Electrospray ionization and matrix assisted laser desorption/ionization mass spectrometry: Powerful analytical tools in recombinant protein chemistry", <i>Nature Biotech.</i> , <u>14</u> :449-457 (1996).
KH	Ardrey, "Electrospray mass spectrometry", <i>Spectroscopy Europe</i> , <u>4</u> : pgs.10, 12, 14, 16, 18, 20 (1992).
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KJ	Bains, "DNA Sequencing By Mass Spectrometry: Outline Of A Potential Future Application", <i>Chimicaoggi</i> , <u>9</u> :13-16 (1991).
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KL	Barany F., "Genetic disease detection and DNA amplification using cloned thermostable ligase", <i>Proc. Natl. Acad. Sci.</i> , <u>88</u> :189-193 (1991).
KM	Barroll B., "DNA sequencing: present limitations and prospects for the future", <i>FASEB Journal</i> , <u>5</u> :40-45 (1991).
KN	Batista-Viera <i>et al.</i> , "A new method for reversible immobilization of thiol biomolecules based on solid-phase bound thiolsulfonate groups," <i>App. Biochem and Biotech</i> , <u>31</u> :175-195 (1991).
KO	Beck <i>et al.</i> , "Chemiluminescent detection of DNA: application for DNA sequencing and hybridization", <i>Nucl. Acids Res.</i> , <u>17</u> (13):5115-5123 (1989).
KP	Benner <i>et al.</i> , "Identification of Denatured Double-stranded DNA by Matrix-assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry", <i>Rapid Commun. Mass Spectrom.</i> , <u>9</u> :537-540 (1995).
KQ	Braun, A. <i>et al.</i> , "Molecular analysis of the gene for the human vitamin-D-binding protein (group-specific component): allelic differences of the common genetic GC types", <i>Hum. Genet.</i> , <u>89</u> :401-406 (1992).

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KR	Braun <i>et al.</i> , "Improved Analysis of Microsatellites Using Mass Spectrometry", <i>Genomics</i> , <u>46</u> :18-23 (1997).
KS	Braun <i>et al.</i> , "Detecting <i>CFTR</i> gene mutations by using primer oligo base extension and mass spectrometry", <i>Clinical Chemistry</i> , <u>43</u> (7):1151-1158 (1997).
KT	Brennan <i>et al.</i> , "New Methods To Sequence DNA By Mass Spectrometry", <i>SPIE New Technol. Cytom. Mol. Biol.</i> , <u>1206</u> :60-67 (1990).
KU	Broude <i>et al.</i> , "Enhanced DNA sequencing by hybridization (streptavidin/biotin/stacking interaction/T4 DNA ligase/DNA polymerase)", <i>Proc. Natl. Acad. Sci. USA</i> , <u>91</u> :3072-3076 (1994).
KV	Bugawan <i>et al.</i> , "A method for typing polymorphism at the HLA-A locus using PCR amplification and immobilized oligonucleotide probes", <i>Tissue Antigens</i> <u>44</u> :137-147 (1994).
KW	Busch <i>et al.</i> , "Mass spectrometry of large, fragile, and involatile molecules", <i>Science</i> , <u>218</u> :247-254 (1982).
KX	Cantor <i>et al.</i> , "Instrumentation in molecular biomedical diagnostics: an overview", <i>Genet. Anal.</i> , <u>14</u> :31-36 (1997).
KY	Cantor, C.R. and Little, D.P., "Massive attack on high-throughput biology", <i>Nat. Genet.</i> , <u>20</u> :5-6 (1998).
KZ	Cantor C.R., "How will the Human Genome Project improve our quality of life?", <i>Nature Biotechnol.</i> , <u>16</u> :212-213 (1998).
LA	Carrero-Valenzuela <i>et al.</i> , "Human cytochrome c oxidase subunit VIb: characterization and mapping of a multigene family", <i>Gene</i> , <u>102</u> :229-236 (1991).
LB	Certified English translation of: Elov <i>et al.</i> , "Synthesis of RNA using T7 RNA polymerase and immobilized DNA in a stream type reactor", <i>Bioorganicheskaya Khimia</i> , <u>17</u> (6):789-94.
LC	Certified English translation of Japanese patent 6-294796, "Nucleic acid analysis method."
LD	Certified English translation of European patent 0412883A1, "Fast screening and/or identification of a single base on a nucleic acid sequence, including applications."
LE	Certified English translation of PCT Patent Application WO 98/03257, "Solid supports for analytical measurement methods, their production and their use."

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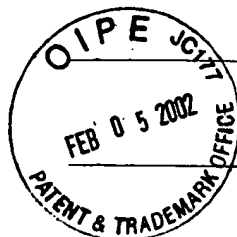
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LF	Chait <i>et al.</i> , "Weighing naked proteins: practical, high-accuracy mass measurement of peptides and proteins," <i>Science</i> , <u>257</u> :1885-1894 (1992).
LG	Chee, "Enzymatic multiplex DNA sequencing," <i>Nucleic Acids Res.</i> <u>19</u> (12):3301-3305 (1991).
LH	Chen <i>et al.</i> , "Laser mass spectrometry for DNA fingerprinting for forensic applications", <i>Annual Meeting of the Society of Photo Optical Instrumentation Engineers</i> , July 24-29, 1994.
LI	Church <i>et al.</i> , "Multiplex DNA Sequencing", <i>Science</i> , <u>240</u> :185-188 (1988).
LJ	Cohen <i>et al.</i> , "Emerging Technologies for Sequencing Antisense Oligonucleotides: Capillary Electrophoresis and Mass Spectrometry," <i>Advanced Chromatography</i> , <u>36</u> :127-162 (1996).
LK	Collins <i>et al.</i> , "A DNA Polymorphism Discovery Resource for Research on Human Genetic Variation", <i>Genome Res.</i> , <u>8</u> :1229-1231 (1998).
LL	Cosstick <i>et al.</i> , "Synthesis and Properties of dithymidine phosphate analogues containing 3'-thiothymidine," <i>Nucleic Acid Research</i> , <u>18</u> :829-835 (1990).
LM	Cotton, R.G.H., "Current methods of mutation detection", <i>Mutation Res.</i> , <u>285</u> :125-144 (1993).
LN	Cotton <i>et al.</i> , "Reactivity of cytosine and thymine in single-base-pair mismatches with hydroxylamine and osmium tetroxide and its application to the study of mutations", <i>Proc. Natl. Acad. Sci. USA</i> , <u>85</u> :4397-4401 (1988).
LO	Covey <i>et al.</i> , "The Determination of Protein, Oligonucleotide and Peptide Molecular Weights by Ion-spray Mass Spectrometry", <i>Rapid Communications in Mass Spectrometry</i> , <u>2</u> (11):249-256 (1988).
LP	Crain, P.F., "Mass spectrometric techniques in nucleic acid research", <i>Mass Spectr. Rev.</i> , <u>9</u> :505-554 (1990).
LQ	Cronin <i>et al.</i> , "Cystic Fibrosis Mutation Detection by Hybridization to Light-Generated DNA Probe Arrays", <i>Hum. Mutat.</i> , <u>7</u> :244-255 (1996).
LR	<u>Culture of Animal Cells</u> , A Manual of Basic Technique, Book: 2nd Edition, Freshney, R.I., Alan R. Liss, Inc., New York. (1987)

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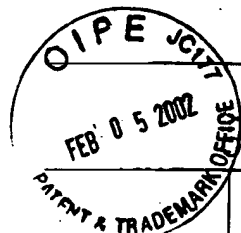
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LS	Derwent# 007515331, WPI Acc. No. 88-149264/198822, citing European Patent Number EP 269520 A, "New HIV-2 retrovirus causing AIDS - and new antigenic proteins, antibodies and complementary nucleic acid sequences", published June 1, 1988.
LT	Derwent# 007678032, WPI Acc No. 88-311964/198844, citing Japanese Patent Application JP 63230086 A, "Carrier immobilising physiological active substance - comprises binding chain-form disulphide cpd. via epoxy gp. with latex contg. polymer particles."
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LV	Derwent# 008221916, WPI Acc. No. 1990-108917/199015, citing European Patent EP 0360677 B, "Identification of sub-units in complex mols. - by mass spectrometry, esp. in nucleic acid sequencing."
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LX	Derwent# 008415766, WPI Acc. No. 90-302767/199040, citing Japanese Patent Number JP 2215399 A, "Method for detecting DNA - includes denaturing to single strand, combining with DNA primer having corresp. base sequence forming replicator etc."
LY	Derwent# 008434790, WPI Acc. No. 1990-321790/199043, citing German Patent DE 4011991 A, "Simultaneous sequencing of several DNA samples - by cloning into separate vectors, complementary strand synthesis from specific fluorescent labelled primers, electrophoresis seprn. etc."
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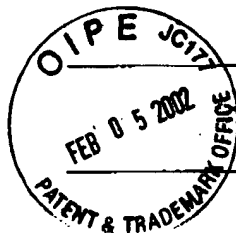
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MB	Derwent# 010222178, WPI Acc. No. 95-123433/199516, citing PCT Patent Application WO 9507361 A, "Detecting presence and position of mutation(s) in double stranded DNA -by amplification, labelling strands with different markers, hybridisation and detecting heteroduplex by cleavage of unpaired strands."
MC	Derwent# 010643408, WPI Acc. No. 1996-140362/199615, citing German Patent DE 4431174 A, "Detecting tumour specific mRNA by conversion to cDNA and amplification -provides early, sensitive and specific diagnosis and monitoring, partic. by analysis of blood or sputum."
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ME	Derwent# 010725941, WPI Acc. No. 1996-222896/199623, citing German Patent Number DE 4438630 A, "Amplification of non-characterized DNA fragments-using only a single primer, with formation of hairpin loops during a second strand synthesis."
MF	Derwent# 011458787, WPI Acc. No. 1997-436694/199741, citing German Patent Number DE 19628178 C, "Loading matrix-assisted laser desorption-ionisation sample plate for mass spectrometric analysis - using simple multi-pipette to prepare tens of thousands of samples rapidly and reliably for e.g. biochemical and genetic investigations optionally using electrophoretic concentration and delivery technique."
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MH	Doktycz <i>et al.</i> , "Analysis of Polymerase Chain Reaction-Amplified DNA Products by Mass Spectrometry Using Matrix-Assisted Laser Desorption and Electrospray: Current Status", <i>Anal. Biochem.</i> , <u>230</u> :205-214 (1995).
MI	Donis-Keller <i>et al.</i> , "Mapping adenines, guanines, and pyrimidines in RNA", <i>Nucl. Acids Res.</i> , <u>4</u> (8):2547-2537 (1977).
MJ	Donis-Keller <i>et al.</i> , "Phy M: an RNase activity specific for U and A residues useful in RNA sequence analysis", <i>Nucl. Acids Res.</i> , <u>8</u> (14):3133-3142 (1977).
MK	Drmanac <i>et al.</i> , "Sequencing of Megabase Plus DNA by Hybridization: Theory of the Method", <i>Genomics</i> , <u>4</u> :114-128 (1989).

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MM	Duchateau <i>et al.</i> , "Selection of buffers and of an ion-pairing agent for thermospray liquid chromatography-mass spectrometric analysis of ionic compounds," <i>J Chromatogr</i> <u>552</u> :605-612 (1991).
MN	Eckstein, F., ed. <u>Oligonucleotides and Analogues: A Practical Approach</u> Oxford:Oxford University Press, pp. 56-57, 137-139, 256-259 (1991).
MO	Edmonds <i>et al.</i> , "Thermospray liquid chromatography-mass spectrometry of nucleosides and of enzymatic hydrolysates of nucleic acids", <i>Nucl. Acids Res.</i> , <u>13</u> (22):8197-8206 (1985).
MP	Elov <i>et al.</i> "Synthesis of RNA using T7 RNA polymerase and immobilized DNA in a stream type reactor", <i>Bioorganicheskaya Khimia</i> , <u>17</u> (6):789-94.
MQ	Erdogan <i>et al.</i> , "Detection of mitochondrial single nucleotide polymorphisms using a primer elongation reaction on oligonucleotide microarrays", <i>Nucl. Acids Res.</i> , <u>29</u> (7):e36:2-7 (2001).
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MS	Foster, M.W. and Freeman, W.L., "Naming Names in Human Genetic Variation Research", <i>Genome Res.</i> , <u>8</u> :755-757 (1998).
MT	Frank and Köster, "DNA chain length and the influence of base composition on electrophoretic mobility of oligodeoxyribonucleotides in polyacrylamide-gels", <i>Nucl. Acids Res.</i> , <u>6</u> (6):2069-2087 (1979).
MU	Frohman, "Cloning PCR Products," Chapter 12 in <i>The Polymerase Chain Reaction</i> , Mullis <i>et al.</i> Eds.; Birkhauser, Boston, pp. 14-37 (1994).
MV	Fu <i>et al.</i> , "A DNA Sequencing Strategy Which Requires Only Five Bases Of Known Terminal Sequence For Priming", abstract: <u>Group Mapping and Sequencing</u> , Cold Spring harbor Laboratory, pp. 1 (1995).
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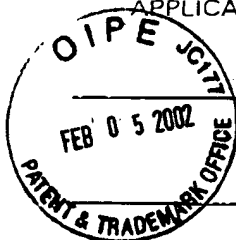
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MX	Fu <i>et al.</i> , "Efficient preparation of short DNA sequence ladders potentially suitable for MALDI-TOF DNA sequencing", <i>Genetic Analysis: Biomolecular Engineering</i> , <u>12</u> :137-142 (1996).
MY	Fu <i>et al.</i> , "Sequencing double-stranded DNA by strand displacement", <i>Nucl. Acids Res.</i> , <u>25</u> (3):677-679 (1997).
MZ	Fu <i>et al.</i> , "Sequencing exons 5 to 8 of the p53 gene by MALDI-TOF mass spectrometry", <i>Nature Biotechnol.</i> , <u>16</u> :381-384 (1998).
NA	Ganem <i>et al.</i> , "Detection of Oligonucleotide Duplex Forms By Ion-Spray Mass Spectrometry", <i>Tetrahedron Letters</i> , <u>34</u> (9):1445-1448 (1993).
NB	Gasparini <i>et al.</i> , "Detection of a neurofibromatosis type I (NF1) homologous sequence by PCR: implications for the diagnosis and screening of genetic diseases", <i>Mol. Cell Probes</i> , <u>7</u> :415-418 (1993).
NC	Gasparini <i>et al.</i> , "Restriction site generating-polymerase chain reaction (RG-PCR) for the probeless detection of hidden genetic variation: application to the study of some common cystic fibrosis mutations", <i>Mol. Cell. Probes</i> , <u>6</u> :1-7 (1992).
ND	<i>Gene Transfer Vectors for Mammalian Cells</i> , Book: <u>Current Communications In Molecular Biology</u> , Miller, J.H. and Calos, M.P. (Eds.), Cold Spring Harbor Laboratory, (1987).
NE	George <i>et al.</i> "Current Methods in Sequence Comparison and Analysis," Chapter 12 of: <i>Macromolecule Sequencing and Synthesis, Selected Methods and Applications</i> Schlesinger (Ed.) 127-149 (1988).
NF	Giannattasio <i>et al.</i> , "Molecular screening of genetic defects with RNA-SSCP analysis: the PKU and cystinuria model", <i>Mol. Cell Probes</i> , <u>9</u> :201-205 (1995).
NG	Gibbs <i>et al.</i> , "Detection of single DNA base differences by competitive oligonucleotide priming", <i>Nucl. Acids Res.</i> , <u>17</u> (7):2437-2448 (1989).
NH	Graber <i>et al.</i> , "Differential sequencing with mass spectrometry", <i>Genet. Anal.</i> , <u>14</u> :215-219 (1999).
NI	Graber <i>et al.</i> , "Advances in DNA diagnostics", <i>Curr. Opin. Biotechnol.</i> , <u>9</u> :14-18 (1998).
NJ	Griffin, H.G. and Griffin, A.M., "DNA Sequencing. Recent Innovations and Future Trends", <i>Appl. Biochem. Biotechnol.</i> , <u>38</u> :147-159 (1993).

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NK	Gross <i>et al.</i> , "Investigations of the Metastable Decay of DNA Under Ultraviolet Matrix-Assisted Laser Desorption/Ionization Conditions with Post-Source-Decay Analysis and Hydrogen/Deuterium Exchange", <i>J. Amer. Soc. for Mass Spectrom.</i> , <u>9</u> :866-878 (1998).
NL	Gruić-Sovulj <i>et al.</i> , "Matrix-assisted laser desorption/ionization mass spectrometry of transfer ribonucleic acids isolated from yeast", <i>Nucl. Acids Res.</i> , <u>25</u> (9):1859-1861 (1997).
NM	Guatelli <i>et al.</i> , "Isothermal, <i>in vitro</i> amplification of nucleic acids by a multienzyme reaction modeled after retroviral replication", <i>Proc. Natl. Acad. Sci. USA</i> , <u>87</u> :1874-1878 (1990).
NN	Haag <i>et al.</i> , Rapid identification and speciation of <i>Haemophilus</i> bacteria by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry, <i>J. of Mass Spectrometry</i> <u>33</u> (8):750-756 (1998).
NO	Haglund <i>et al.</i> , "Matrix-Assisted Laser-Desorption Mass Spectrometry Of DNA Using An Infrared Free-Electron Laser", <i>SPIE</i> , <u>1854</u> :117-128 (1993).
NP	Hahner <i>et al.</i> , "Sequencing of nucleic acids by MALDI-MS", <i>Proceedings ASMS Conference on Mass Spectrometry and Allied Topics</i> , Portland, Oregon, (44th), pp. 983 (1996).
NQ	Hainaut <i>et al.</i> , "Database of p53 gene somatic mutations in human tumors and cell lines: updated compilation and future prospects", <i>Nucl. Acids Res.</i> , <u>25</u> (1):151-157 (1997).
NR	<u>Handbook Of Experimental Immunology In Four Volumes</u> , Book: Vol. 1, "Immunochemistry", Weir, D.M., (and co-Eds.), Fourth Edition, Blackwell Scientific Publications, Osney Mead, Oxford, (1986).
NS	Hasan <i>et al.</i> , "Base-boronated dinucleotides: synthesis and effect of N7-cyanoborane substitution on the base protons", <i>Nucl. Acids Res.</i> , <u>24</u> (11):2150-2157 (1996).
NT	Hayashi, K., "PCR-SSCP: A Method for Detection of Mutations", <i>Genet. Anal. Tech. Appl. (GATA)</i> , <u>9</u> (3):73-79 (1992).
NU	Hensley, S., "Gemini Genomics and Sequenom Unveil Previously Unknown Genes", <i>Wall Street Journal</i> , Health Section, pp. 40 (2000).

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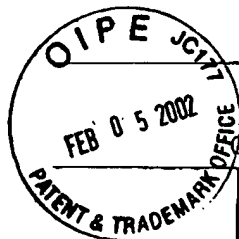
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NV	Higgins <i>et al.</i> , "Competitive Oligonucleotide Single-Base Extension Combined with Mass Spectrometric Detection for Mutation Screening", <i>BioTechniques</i> , <u>23(4)</u> :710-714 (1997).
NW	Higuchi <i>et al.</i> , "Kinetic PCR Analysis: Real-time Monitoring of DNA Amplification Reactions", <i>BioTech.</i> , <u>11</u> :1026-1030 (1993).
NX	Higuchi <i>et al.</i> , "A general method of <i>in vitro</i> preparation and mutagenesis of DNA fragments: Study of protein and DNA interactions", <i>Nucl. Acids Res.</i> , <u>16</u> :7351-7367 (1988).
NY	Hillenkamp, F. and Ehring, H., "Laser Desorption Mass Spectrometry Part 1: Basic Mechanisms And Techniques", <i>Mass Spectrometry in the Biological Sciences: A tutorial</i> , pp. 165-179 (1992).
NZ	Hu <i>et al.</i> , "DNA Polymerase-Catalyzed Addition of Nontemplated Extra Nucleotides to the 3' End of a DNA Fragment", <i>DNA and Cell Biol.</i> , <u>12(8)</u> :763-770 (1993).
OA	Hu <i>et al.</i> , "Primer specific and mispair extension analysis (PSMEA) as a simple approach to fast genotyping", <i>Nucl. Acids Res.</i> , <u>26(21)</u> :5013-5015 (1998).
OB	Hyman, E.D., "A New Method of Sequencing DNA", <i>Anal. Biochem.</i> , <u>174</u> :423-436 (1988).
OC	<u>Immobilised cells and enzymes</u> , a practical approach, Woodward, J. (Ed.), IRL Press Limited, Oxford, Washington, DC, 1985.
OD	<u>Immunochemical Methods in Cell and Molecular Biology</u> , Mayer, R.J. and Walker, J.H. (Eds.), Academic Press, London, 1987).
OE	Innis <i>et al.</i> , "DNA sequencing with <i>Thermus aquaticus</i> DNA polymerase and direct sequencing of polymerase chain reaction-amplified DNA", <i>Proc. Natl. Acad. Sci. USA</i> , <u>85</u> :9436-9440 (1988).
OF	Jacobson <i>et al.</i> , "Applications of mass spectrometry to DNA fingerprinting and DNA sequencing", <u>International Symposium on the Forensic Aspects of DNA Analysis</u> , pp. 1-18, Mar 29-Apr 2, 1993.
OG	Jacobson <i>et al.</i> , "Applications of Mass Spectrometry to DNA Sequencing", <i>Genet. Anal. Tech. Appl. (GATA)</i> , <u>8(8)</u> :223-229 (1991).
OH	Jain, "Delivery of Molecular Medicine to Solid Tumors", <i>Science</i> , <u>271</u> :1079-1080 (1996).

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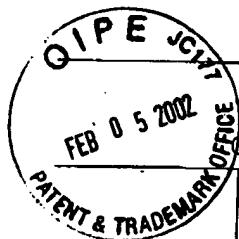
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OI	Jett et al., "High-Speed DNA Sequencing: An Approach Based Upon fluorescence Detection of Single Molecules", <i>J. Bio. Struct. & Dynam.</i> , <u>7</u> (2):301-309 (1989).
OJ	Ji et al., "Two-dimensional electrophoretic analysis of proteins expressed by normal and cancerous human crypts: Application of mass spectrometry to peptide-mass fingerprinting", <i>Electrophoresis</i> , <u>15</u> :391-405 (1994).
OK	Juhasz et al., "Applications of Delayed Extraction Matrix-Assisted Laser Desorption Ionization Time-of-Flight Mass Spectrometry to Oligonucleotide Analysis", <i>Anal. Chem.</i> , <u>68</u> (6):941-946 (1996).
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OM	Jurinke et al., "Application of nested PCR and mass spectrometry for DNA-based virus detection: HBV-DNA detected in the majority of isolated anti-HBc positive sera", <i>Genetic Analysis: Biomolecular Engineering</i> , <u>14</u> :97-102 (1998).
ON	Jurinke et al., "Detection of hepatitis B virus DNA in serum samples via nested PCR and MALDI-TOF mass spectrometry," <i>Genetic Analysis: Biomolecular Engineering</i> , <u>13</u> :67-71 (1996).
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OP	Karas, et al., "UV Laser Matrix Desorption/Ionization Mass Spectrometry Of Proteins In The 100,000 Dalton Range", <i>J. Mass Spectrom. Ion Processes</i> , <u>92</u> :231-242 (1989).
OQ	Keen et al., "Rapid detection of single base mismatches as heteroduplexes on Hydrolink gels", <i>Trends Genet.</i> , <u>7</u> :5 (1991).
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OT	Kirpekar et al., "DNA sequence analysis by MALDI mass spectrometry", <i>Nucl. Acids Res.</i> , <u>26</u> (11):2554-2559 (1998).

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OU	Kirpekar <i>et al.</i> , "Matrix assisted laser desorption/ionization mass spectrometry of enzymatically synthesized RNA up to 150 kDa", <i>Nucl. Acids Res.</i> , <u>22(19)</u> :3866-3870 (1994).
OV	Kirpekar <i>et al.</i> , "7-Deaza Purine Bases Offer a Higher Ion Stability in the Analysis of DNA by Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry", <i>Rapid Commun. Mass Spectrom.</i> , <u>9</u> :525-531 (1995).
OW	Kornher, J.S. and Livak, K.J., "Mutation detection using nucleotide analogs that alter electrophoretic mobility", <i>Nucl. Acids Res.</i> , <u>17(19)</u> :7779-7784 (1989).
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OY	Köster <i>et al.</i> , "N-Acyl Protecting Groups For Deoxynucleotides: A Quantitative And Comparative Study", <i>Tetrahedron</i> , <u>37</u> :363-369 (1981).
OZ	Köster <i>et al.</i> , "Oligonucleotide synthesis and multiplex DNA sequencing using chemiluminescent detection", <i>Nucl. Acids Res.</i> , Symposium Series No. 24, pp. 318-321 (1991).
PA	Köster <i>et al.</i> , "Some improvements in the synthesis of DNA of biological interest", <i>Nucl. Acids Res.</i> , <u>7</u> :39-59 (1980).
PB	Köster <i>et al.</i> , "Well-Defined Insoluble Primers for the Enzymatic Synthesis of Oligo- and Polynucleotides", <i>Hoppe-Seyler's Z. Physiol. Chem.</i> , <u>359</u> :1579-1589 (1978).
PC	Kozal <i>et al.</i> , "Extensive polymorphisms observed in HIV-1 clade B protease gene using high-density oligonucleotide arrays", <i>Nature</i> , <u>2(7)</u> :753-759 (1996).
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PE	Krishnamurthy <i>et al.</i> , Biomolecules and mass spectroscopy, <i>J. of Natural Toxins</i> <u>6(2)</u> :121-162 (1997).
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PG	Kussmann, <i>et al.</i> , "Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry Sample Preparation Techniques Designed for Various Peptide and Protein Analytes", <i>J. Mass Spec.</i> , <u>32</u> :593-601 (1997).

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PH	Kwoh <i>et al.</i> , "Transcription-based amplification system and detection of amplified human immunodeficiency virus type 1 with a bead-based sandwich hybridization format", <i>Proc. Natl. Acad. Sci. USA</i> , <u>86</u> :1173-1177 (1989).
PI	Labeit <i>et al.</i> , "Laboratory Methods: A New Method of DNA Sequencing Using Deoxynucleoside α -Thiotriphosphates", <i>DNA</i> , <u>5</u> :173-177 (1986).
PJ	Lagerström <i>et al.</i> , "Capture PCR: Efficient amplification of DNA fragments adjacent to a known sequence in human YAC DNA," <i>PCR Methods and Applications</i> <u>1</u> :111-119 (1991).
PK	Landegren <i>et al.</i> , "A Ligase-Mediated Gene Detection Technique", <i>Science</i> , <u>241</u> :1077-1080 (1988).
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PO	Li <i>et al.</i> , "Analysis of Single Mammalian Cell Lysates by Mass Spectrometry", <i>J. Am. Chem. Soc.</i> , <u>118</u> :11662-11663 (1996).
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PQ	Li <i>et al.</i> , "High-Resolution MALDI Fourier Transform Mass Spectrometry of Oligonucleotides", <i>Anal. Chem.</i> , <u>68</u> (13):2090-2096 (1996).
PR	Limbach <i>et al.</i> , "Molecular mass measurement of intact ribonucleic acids via electrospray ionization quadrupole mass spectrometry", <i>J. Am. Soc. Mass Spectrom.</i> , <u>6</u> :27-39 (1995).
PS	Little <i>et al.</i> , "Identification of Apolipoprotein E Polymorphisms Using Temperature Cycled Primer Oligo Base Extension and Mass Spectrometry", <i>Short Communication, Eur. J. Clin. Chem. Clin. Biochem.</i> , <u>35</u> (7):545-548 (1997).
PT	Little <i>et al.</i> , "Detection of RET proto-oncogene codon 634 mutations using mass spectrometry," <i>J. Mol. Med.</i> , <u>75</u> :745-750 (1997).

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PU	Little <i>et al.</i> , "Direct detection of synthetic and biologically generated double-stranded DNA by MALDI-TOF MS," <i>International Journal of Mass Spectrometry and Ion Processes</i> , <u>169-170</u> :323-330 (1997).
PV	Little <i>et al.</i> , "MALDI on a Chip: Analysis of Arrays of Low-Femtomole to Subfemtomole Quantities of Synthetic Oligonucleotides and DNA Diagnostic Products Dispensed by a Piezoelectric Pipet", <i>Anal. Chem.</i> , <u>69</u> :4540-4546 (1997).
PW	Little <i>et al.</i> , "Mass spectrometry from miniaturized arrays for full comparative DNA analysis," <i>Nature Medicine</i> , <u>3</u> (12):1413-1416 (1997).
PX	Little <i>et al.</i> , "Rapid Sequencing of Oligonucleotides by High-Resolution Mass Spectrometry", <i>J. Am. Chem. Soc.</i> , <u>116</u> :4893-4897 (1994).
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PZ	Liu, <i>et al.</i> , "Use of a Nitrocellulose Film Substrate in Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry for DNA Mapping and Screening", <i>Anal. Chem.</i> , <u>67</u> :3482 (1995).
QA	Lizardi <i>et al.</i> , "Exponential Amplification of Recombinant-RNA Hybridization Probes", <i>Bio/Technol.</i> , <u>6</u> :1197-1202 (1988).
QB	Marshall, A. and Hodgson, J., "DNA chips: An array of possibilities", <i>Nat. Biotechnol.</i> , <u>16</u> :27-31 (1998).
QC	Martin, W.J., "New technologies for large-genome sequencing", <i>Genome</i> , <u>31</u> :1073-1080 (1989).
QD	Matthews <i>et al.</i> , "Analytical Strategies for the Use of DNA Probes", <i>Anal. Biochem.</i> , <u>169</u> :1-25 (1988).
QE	Matteucci, M.D. and Caruthers, M.H., "Synthesis of Deoxypolynucleotides on a Polymer Support", <i>J. Amer. Chem. Soc.</i> , <u>103</u> :3185-3191 (1981).
QF	Maxam, A.M. and Gilbert, W., "A new method for sequencing DNA", <i>Proc. Natl. Acad. Sci. USA</i> , <u>74</u> (2):560-564 (1977).
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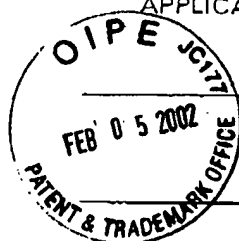
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QH	McLafferty, <i>et al.</i> , "Double stranded DNA sequencing by tandem mass spectrometry", <i>Intl. J. Mass Spectrom. Ion Processes</i> , <u>165/166</u> :457-466 (1997).
QI	<i>Methods of Enzymol.</i> , Volume 193 Mass Spectrometry (McCloskey, editor), p. 425, Academic Press, New York, (1990).
QJ	Miyazaki <i>et al.</i> , "The First Japanese Case of Hb Santa Ana, an Unstable Abnormal Hemoglobin, Identified Rapidly by Electrospray Ionization Mass Spectrometry", <i>Internal Medicine</i> , <u>36(3)</u> :365-370 (1997).
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QM	Monforte, J.A. and Becker, C.H., "High-throughput DNA analysis by time-of-flight mass spectrometry," <i>Nature Medicine</i> , <u>3(3)</u> :36-42 (1997).
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QO	Mullis, K.B. and Faloona, F.A., "Specific Synthesis of DNA <i>in Vitro</i> via a Polymerase-Catalyzed Chain Reaction", <i>Meth. Enzymol.</i> , <u>155</u> :335-350 (1987).
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QQ	Murray, K.K., "DNA Sequencing by Mass Spectrometry", <i>J. Mass. Spect.</i> , <u>31</u> :1203-1215 (1996).
QR	Myers <i>et al.</i> , "Detection of Single Base Substitutions by Ribonuclease Cleavage at Mismatches in RNA:DNA Duplexes", <i>Science</i> , <u>230</u> :1242-1246 (1985).
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QT	Naeve <i>et al.</i> , "Accuracy of Automated DNA Sequencing: A Multi-Laboratory Comparison of Sequencing Results", <i>Biotechniques</i> , <u>19</u> :448-453 (1995).
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QW	Nakamaye <i>et al.</i> , "Direct Sequencing of polymerase chain reaction amplified DNA fragments through the incorporation of deoxynucleoside a-thiotriphosphates," <i>Nucl. Acids. Research.</i> <u>16</u> :9947-9959 (1988).
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RB	Newton <i>et al.</i> , "The production of PCR products with 5' single-stranded tails using primers that incorporate novel phosphoramidite intermediates," <i>Nucl. Acids. Res.</i> , <u>21(5)</u> :1155-1162 (1993).
RC	Nickerson <i>et al.</i> , "Automated DNA diagnostics using an ELISA-based oligonucleotide ligation assay", <i>Proc. Natl. Acad. Sci. USA</i> , <u>87</u> :8923-8927 (1990).
RD	Nielsen, <i>et al.</i> , "Sequence-Selective Recognition of DNA by Strand Displacement with a Thymine-Substituted Polyamide", <i>Science</i> , <u>254</u> :1497 (1991).
RE	Nikiforov, T.T. and Rogers, Y., "The Use of 96-Well Polystyrene Plates for DNA Hybridization-Based Assays: An Evaluation of Different Approaches to Oligonucleotide Immobilization", <i>Anal. Biochem.</i> , <u>227</u> :201-209 (1995).
RF	Nikiforov <i>et al.</i> , "Genetic Bit Analysis: a Solid Phase Method for Typing Single Nucleotide Polymorphisms", <i>Nucl. Acids Res.</i> , <u>22(20)</u> :4167-4175 (1994).
RG	Nordhoff <i>et al.</i> , "Ion stability of nucleic acids in infrared matrix-assisted laser desorption/ionization mass spectrometry", <i>Nucl. Acids Res.</i> , <u>21(15)</u> :3347-3357 (1993).

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RH	Norton <i>et al.</i> , "Targeting Peptide Nucleic Acid-Protein Conjugates to Structural Features within Duplex DNA", <i>Bioorg. Med. Chem.</i> , <u>3</u> (4):437-445 (1995).
RI	Nyrén <i>et al.</i> , "Solid Phase DNA Minisequencing by an Enzymatic Luminometric Inorganic Pyrophosphate Detection Assay", <i>Anal. Biochem.</i> , <u>208</u> :171-175 (1993).
RJ	O'Connor <i>et al.</i> , "Isotopic Assignment in Large-Molecule Mass Spectra by Fragmentation of a Selected Isotopic Peak", <i>Anal. Chem.</i> , <u>68</u> :542-545 (1996).
RK	O'Donnell <i>et al.</i> , "High-Density, Covalent Attachment of DNA to Silicon Wafers for Analysis by MALDI-TOF Mass Spectrometry", <i>Anal. Chem.</i> , <u>69</u> (13):2438-2443 (1997).
RL	O'Donnell <i>et al.</i> , "MassArray as an Enabling Technology for the Industrial-Scale Analysis of DNA", <i>Genetic Engineering News</i> , <u>17</u> (21):39-41 (1997).
RM	O'Donnell-Maloney <i>et al.</i> , "Microfabrication and array technologies for DNA sequencing and diagnostics", <i>Genetic Analysis: Biomolecular Engineering</i> , <u>13</u> :151-157 (1996).
RN	O'Donnell-Maloney <i>et al.</i> , "The development of microfabricated arrays for DNA sequencing and analysis", <i>TIBTECH</i> , <u>14</u> :401-407 (1996).
RO	Olsson, "Isolation and Characterization of a tumor necrosis factor binding protein from urine," <i>Eur. J. Haematol.</i> , <u>42</u> :270-275 (1989) (XP000937599).
RP	Ordoukhanian <i>et al.</i> , "Design and Synthesis of a Versatile Photocleavable DNA Building Block: Application to Phototriggered Hybridization", <i>J. Am. Chem. Soc.</i> , <u>117</u> :9570-9571 (1995).
RQ	Orita <i>et al.</i> , "Detection of polymorphisms of human DNA by gel electrophoresis as single-strand conformation polymorphisms", <i>Proc. Natl. Acad. Sci. USA</i> , <u>86</u> :2766-2770 (1989).
RR	Overberg <i>et al.</i> , "Laser Desorption Mass Spectrometry. Part II Performance and Applications of Matrix-Assisted Laser Desorption/Ionization of Large Biomolecules", <i>Mass Spect. Biol. Sci.: A Tutorial</i> , pp. 181-197, (1992).
RS	Palejwala <i>et al.</i> , "Quantitative multiplex sequence analysis of mutational hot spots. Frequency and specificity of mutations induced by a site-specific ethenocytosine in m13 viral DNA," <i>Biochemistry</i> <u>32</u> :4105-4111 (1993).
RT	Pasini <i>et al.</i> , "RET mutations in human disease", <i>Trends in Genetics</i> , <u>12</u> :138-144 (1996).

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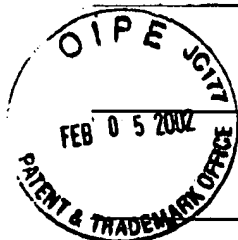
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RU	Pieles <i>et al.</i> , "Matrix-assisted laser desorption ionization time-of-flight mass spectrometry: a powerful tool for the mass and sequence analysis of natural and modified oligonucleotides", <i>Nucl. Acids Res.</i> , <u>21</u> (14):3191-3196 (1993).
RV	Pomerantz <i>et al.</i> , "Determination of Oligonucleotide Composition from Mass Spectrometrically Measured Molecular Weight", <i>Am. Soc. Mass Spectrom.</i> , <u>4</u> :204-209 (1993).
RW	Porter <i>et al.</i> , "N7-Cyanoborane-2'-Deoxyguanosine-5'-Triphosphate Is a Good Substrate for DNA Polymerase", <i>Biochem.</i> , <u>34</u> :11963-11969 (1995).
RX	Prezant, T. R. and Fischel-Ghodsian, N., "Trapped-Oligonucleotide Nucleotide Incorporation (TONI) Assay, a Simple Method for Screening Point Mutations", <i>Hum. Mutat.</i> , <u>1</u> :159-164 (1992).
RY	Prome <i>et al.</i> , "Use of Combined Mass Spectrometry Methods for the Characterization of a New Variant of Human Hemoglobin: The Double Mutant Hemoglobin Villeparisis Beta 77(EF1)", <i>J. Am. Soc. for Mass Spectr.</i> , <u>7</u> :163-167 (1996).
RZ	Prosser, J., "Detecting single-base mutations", <i>TIBTECH</i> , <u>11</u> :238-246 (1993).
SA	Rosenbaum, V. and Riesner, D., "Temperature-gradient gel electrophoresis. Thermodynamic analysis of nucleic acids and proteins in purified form and in cellular extracts", <i>Biophys. Chem.</i> , <u>26</u> :235-246 (1987).
SB	Saiki <i>et al.</i> , "Analysis of enzymatically amplified β -globin and HLA-DQ α DNA with allele-specific oligonucleotide probes", <i>Nature</i> , <u>324</u> :163-166 (1986).
SC	Saiki <i>et al.</i> , "Genetic analysis of amplified DNA with immobilized sequence-specific oligonucleotide probes", <i>Proc. Natl. Acad. Sci. USA</i> , <u>86</u> :6230-6234 (1989).
SD	Saleeba, J.A. and Cotton, R.G.H., "Chemical Cleavage of Mismatch to Detect Mutations", <i>Meth. Enzymol.</i> , <u>217</u> :286-295 (1993).
SE	Sanger <i>et al.</i> , "DNA sequencing with chain-terminating inhibitors", <i>Proc. Natl. Acad. Sci. USA</i> , <u>74</u> (12):5463-5467 (1977).
SF	Sarin <i>et al.</i> , "Inhibition of acquired immunodeficiency syndrome virus by oligodeoxy-nucleoside methylphosphonates", <i>Proc. Natl. Acad. Sci. USA</i> , <u>85</u> :7448-7451 (1988).
SG	Sarkar <i>et al.</i> , "Human Genetic Bi-allelic Sequences (HGBASE), a Database of Intra-genic Polymorphisms", <u>93</u> (5):693-694 (1998).

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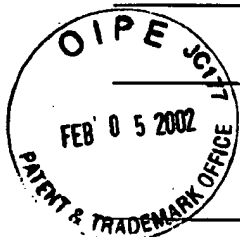
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SH	Sauer <i>et al.</i> , "A novel procedure for efficient genotyping of single nucleotide polymorphisms", <i>Nucl. Acids Res.</i> , <u>28</u> (5):e13 (i-viii) (2000).
SI	Schneider, K. and Chait, B.T., "Increased stability of nucleic acids containing 7-deaza-guanosine and 7-deaza-adenosine may enable rapid DNA sequencing by matrix-assisted laser desorption mass spectrometry", <i>Nucl. Acids Res.</i> , <u>23</u> :1570-1575 (1995).
SJ	Schram, K.H., "Mass Spectrometry of Nucleic Acid Components", <i>Biol. Appl. of Mass Spect.</i> , <u>34</u> :203-287 (1990).
SK	Seela <i>et al.</i> , "7-Deazapurine containing DNA: efficiency of c ² G ₄ TP, c ² A ₄ TP and c ² I ₄ TP incorporation during PCR-amplification and protection from endodeoxyribonuclease hydrolysis", <i>Nucl. Acids Res.</i> , <u>20</u> (1):55-61 (1992).
SL	Sequenom Reports On Use Of Its DNA MassArray™ Technology To Analyze Genes Associated With Alzheimer's Disease And Arteriosclerosis: Technology Has Applications In Drug Development, Press Release: Sept. 22, 1997, http://www.sequenom.com/pressrelease.htm .
SM	Sequenom Reports DNA MassArray™ Technology More Sensitive Than Electrophoretic Methods In Detecting Gene Mutations: Automated DNA Analysis System Can Speed Up Microsatellite Analyses, Press Release: Dec. 15, 1997, http://www.sequenom.com/pressrelease.htm .
SN	Sequenom Signs Agreement With Bruker-Franzen Analytik To Develop Mass Spectrometer For DNA Massarray Analysis, Press Release: Jan. 12, 1998, http://www.sequenom.com/pressrelease.htm .
SO	Sequenom Uses DNA MassArray™ To Sequence Section Of Human Cancer-Related p53 Gene, Press Release: Mar. 27, 1998, http://www.sequenom.com/pressrelease.htm .
SP	Sequenom Obtains Important New Patent For DNA MassArray Technology, Press Release: May 24, 1999, http://www.sequenom.com/pr/pressreleases/52499.html .
SQ	Sequenom Advances The Industrial Genomics Revolution With The Launch Of Its DNA MassArray™ Automated Process Line", Press Release: Sept. 28, 1998, http://www.sequenom.com/pressrelease.htm .
SR	Sequenom Obtains Patents For DNA MassArray [™] Technology, Press Release: April 27, 1999, http://www.sequenom.com/pressrelease/42799.htm .

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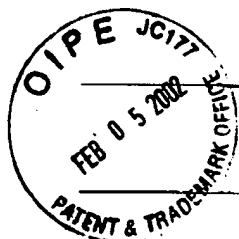
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SS	Shaler <i>et al.</i> , "Effect of Impurities on the Matrix-Assisted Laser Desorption Mass Spectra of Single-Stranded Oligodeoxynucleotides", <i>Anal. Chem.</i> , <u>68</u> :576-579 (1996).
ST	Siegert <i>et al.</i> , "Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry for the Detection of Polymerase Chain Reaction Containing 7-Deazapurine Moieties", <i>Anal. Biochem.</i> , <u>243</u> :55-65 (1996).
SU	Siuzdak, G., "The emergence of mass spectrometry in biochemical research", <i>Proc. Natl. Acad. Sci. USA</i> , <u>91</u> :11290-11297 (1994).
SV	Smith <i>et al.</i> , "Capillary-Zone Electrophoresis-Mass Spectrometry Using an Electrospray Ionization Interface", <i>Anal. Chem.</i> , <u>60</u> :436-441 (1988).
SW	Smith R. D., "New Developments in Biochemical Mass Spectrometry: Electrospray Ionization", <i>Anal. Chem.</i> , <u>62</u> :882-899 (1990).
SX	Smith <i>et al.</i> , "Fluorescence detection in automated DNA sequence analysis", <i>Nature</i> , <u>321</u> :674-679 (1986).
SY	Sokolov, B.P. and Prockop, J.J., "A rapid and simple PCR-based method for isolation of cDNAs from differently expressed genes", <i>Nucl. Acids Res.</i> , <u>22</u> (19):4009-4015 (1994).
SZ	Sokolov, B.P., "Primer extension technique for the detection of single nucleotide in genomic DNA", <i>Nucl. Acids Res.</i> , <u>18</u> (12):3671 (1989).
TA	Stahl <i>et al.</i> , "Solid phase DNA sequencing using the biotin-avidin system," <i>Nucl. Acids Res.</i> , <u>16</u> (7):3025-3039 (1988).
TB	Stein <i>et al.</i> , "Physicochemical properties of phosphorothioate oligodeoxynucleotides", <i>Nucl. Acids Res.</i> , <u>16</u> (8):3209-3221 (1988).
TC	Sun <i>et al.</i> , "A new MALDI-TOF based mini-sequencing assay for genotyping of SNPS", <i>Nucl. Acids Res.</i> , <u>28</u> (12):e68 (i-viii) (2000).
TD	Syvänen <i>et al.</i> , "A Primer-Guided Nucleotide Incorporation Assay in the Genotyping of Apolipoprotein E", <i>Genomics</i> , <u>8</u> :684-692 (1990).
TE	Syvänen <i>et al.</i> , "Detection of Point Mutations by Solid-Phase Methods," <i>Human Mutation</i> <u>3</u> (3):172-179 (1994).
TF	Syvänen <i>et al.</i> , "Identification of Individuals by analysis of Biallelic DNA markers, using PCR and Solid-Phase Minisequencing", <i>Am. J. Hum. Genet.</i> , <u>52</u> :46-59 (1993).

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TG	Szybalski, "Universal restriction endonucleases: designing novel cleavage specificities by combining adapter olideoxynucleotide and enzyme moieties," <i>Gene</i> 40:169-173 (1985).
TH	Tang <i>et al.</i> , "Detection of 500-Nucleotide DNA by Laser Desorption Mass Spectrometry", <i>Rapid Commun. Mass Spectrom.</i> , 8:727-730 (1994).
TI	Tang <i>et al.</i> , "Matrix-Assisted Laser Desorption/Ionization of Restriction Enzyme-Digested DNA", <i>Rapid Commun. Mass Spectrom.</i> , 8:183-186 (1994).
TJ	Tang <i>et al.</i> , "Matrix-assisted laser desorption/ionization mass spectrometry of immobilized duplex DNA probes", <i>Nucl. Acids Res.</i> , 23(16):3126-3131 (1995).
TK	Tang, <i>et al.</i> , "Improving mass resolution in MALDI/TOF analysis of DNA", <i>American Society of Mass Spectrometrists Conference</i> May 21-26, 1995.
TL	Tobe <i>et al.</i> , "Single-well genotyping of diallelic sequence variations by a two-color ELISA-based oligonucleotide ligation assay", <i>Nucl. Acids Res.</i> , 24(19):3728-3732 (1996).
TM	Tomer <i>et al.</i> , "Coaxial Continuous Flow Fast Atom Bombardment for Higher-Molecular-Weight Peptides: Comparison with Static Fast Atom Bombardment and electrospray ionization", <i>Biol. Mass Spect.</i> , 20:783-788 (1991).
TN	Trainor, "DNA Sequencing, Automation, and the Human Genome", <i>Anal. Chem.</i> , 62:418-426 (1990).
TO	Ugozzoli <i>et al.</i> , "Detection of Specific Alleles by Using Allele-Specific Primer Extension Followed by Capture on Solid Support", <i>Genet. Anal. Tech. Appl. (GATA)</i> , 9(4):107-112 (1992).
TP	Uhlmann <i>et al.</i> , "Antisense Oligonucleotides: A New Therapeutic Principle", <i>Chemical Reviews</i> , 90(4):544-583 (1990).
TQ	Valaskovic <i>et al.</i> , "Attomole-Sensitivity Electrospray Source for Large-Molecule Mass Spectrometry", <i>Anal. Chem.</i> , 67:3802-3805 (1995).
TR	Valaskovic <i>et al.</i> , "Attomole Protein Characterization by Capillary Electrophoresis-Mass Spectrometry", <i>Science</i> , 273:1199-1202 (1996).
TS	Van Brunt, J., "Amplifying Genes: PCR And Its Alternatives", <i>Bio/Technol.</i> , 8:291-294 (1990).
TT	van den Boom <i>et al.</i> , "Forward and Reverse DNA Sequencing in a Single Reaction", <i>Anal. Biochem.</i> , 256:127-129 (1998).

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TU	van den Boom <i>et al.</i> , "Combined amplification and sequencing in a single reaction using two DNA polymerase with differential incorporation rates for dideoxynucleotides", <i>J. Biochem. Biophys. Methods</i> , <u>35</u> :69-79 (1997).
TV	Vorm <i>et al.</i> , "Improved Resolution and Very High Sensitivity in MALDI TOF of Matrix Surfaces Made by Fast Evaporation," <i>Anal. Chem.</i> , <u>66</u> :3281-3287 (1994).
TW	Walker <i>et al.</i> , "Multiplex strand displacement amplification (SDA) and detection of DNA sequences from <i>Mycobacterium tuberculosis</i> and other mycobacteria", <i>Nucl. Acids Res.</i> , <u>22</u> (13):2670-2677 (1994).
TX	Wallace <i>et al.</i> , "Hybridization of synthetic oligodeoxyribonucleotides to phi chi 174 DNA: the effect of single base pair mismatch", <i>Nucl. Acids Res.</i> , <u>6</u> (11):3543-3557 (1979).
TY	Wallace <i>et al.</i> , "Oligonucleotide directed mutagenesis of the human beta-globin gene: a general method for producing specific point mutations in cloned DNA", <i>Nucl. Acids Res.</i> , <u>9</u> (15):3647-3656 (1981).
TZ	Wallace <i>et al.</i> , "The use of synthetic oligonucleotides as hybridization probes. II. Hybridization of oligonucleotides of mixed sequence to rabbit beta-globin DNA", <i>Nucl. Acids Res.</i> , <u>9</u> (4):879-894 (1981).
UA	Welham <i>et al.</i> , "The rapid identification of intact microorganisms by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry", <i>Pharmacy and Pharmacology Comm.</i> <u>4</u> (2):81-87 (1998).
UB	Williams, "Time of flight mass spectrometry of DNA laser-ablated from frozen aqueous solutions: applications to the Human Genome Project", <i>Intl. J. Mass Spectrom. and Ion Processes</i> , <u>131</u> :335-344 (1994).
UC	Wolter <i>et al.</i> , "Negative ion FAB mass spectrometric analysis of non-charged key intermediated in oligonucleotide synthesis: rapid identification of partially protected dinucleoside monophosphates", <i>Biomed. Environ. Mass Spect.</i> , <u>14</u> :111-116 (1987).
UD	Wong <i>et al.</i> , "Characterization of β -thalassaemia mutations using direct genomic sequencing of amplified single copy DNA", <i>Nature</i> , <u>330</u> :384-386 (1987).
UE	Wood <i>et al.</i> , "Direct sequence data from heterogeneous creatine kinase (43 kDa) by high-resolution tandem mass spectrometry", <i>Biochem.</i> , <u>34</u> :16251-16254 (1995).

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UF	Wu <i>et al.</i> , Time-of-Flight Mass Spectrometry of Underivatized Single-Stranded DNA Oligomers by Matrix-Assisted Laser Desorption, <i>Anal. Chem.</i> , <u>66</u> (10):1637-1645 (1994).
UG	Wu <i>et al.</i> , "The ligation amplification reaction (LAR) — amplification of specific DNA sequences using sequential rounds of template-dependent ligation," <i>Genomics</i> , <u>4</u> :560-569 (1989).
UH	Wu <i>et al.</i> , "Allele-specific enzymatic amplification of β -globin genomic DNA for diagnosis of sickle cell anemia", <i>Proc. Natl. Acad. Sci. USA</i> , <u>86</u> :2757-2760 (1989).
UI	Yang, <i>et al.</i> , "Detection of Hepatitis B Virus in Plasma Using Flow Cytometric Analyses of Polymerase Chain Reaction-Amplified DNA Incorporating Digoxigenin-11-dUTP", <i>Blood</i> , <u>81</u> (4):1083-1088 (1993).
UJ	Yates, III, "Mass spectrometry and the age of the proteome", <i>J. Mass Spec.</i> , <u>33</u> :1-19 (1998).
UK	Zhang <i>et al.</i> , "Single-base mutational analysis of cancer and genetic diseases: using membrane bound modified oligonucleotides", <i>Nucl. Acids Res.</i> , <u>19</u> :3929-3933 (1991).
UL	Zimmermann <i>et al.</i> , Automated Preparation and Purification of M13 Templates for DNA Sequencing", <i>Meth. Mol. Cell. Biol.</i> , <u>1</u> :29-34 (1989).
UM	Zuckermann <i>et al.</i> , "Efficient methods for attachment of thiol specific probes to the 3'-ends of synthetic oligodeoxyribonucleotides," <i>Nucleic Acids Research</i> , <u>15</u> :13 5305-5320 (1987).

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